CW#86: Intro to Trig – Tangent

Geometry

CLASSROOM COPY! COPY ALL FIGURES AND SHOW ALL WORK IN NOTEBOOK!

Copy in notebook and complete the statement:

The tangent ratio compares the length of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the length of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

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| --- | --- | --- | --- |
| Directions: Copy all figures in your notebook and show all work. Find tan *A* and tan *B*. Write each answer as a fraction and as a decimal rounded to four places. | | | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%207.52.24%20PM | 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%207.52.30%20PM   A | | 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%207.52.39%20PM   C |
| Directions: Find the value of *x* to the nearest tenth. | | | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%208.50.45%20PM | 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%208.50.49%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%208.50.55%20PM |
| Directions: Find the value of *x* using the definition of tangnet. Then find the value of *x* using the rules we developed for 45°-45°-90° triangles and 30°-60°-90° triangles. Write at least one sentence *comparing* the results. | | | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%208.53.53%20PM | 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%208.54.07%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%208.54.11%20PM |
| ERROR ANALYSIS! Directions: *Describe* the error in the statement of the tangent ratio. Correct the statement, if possible. Otherwise, write *not possible*. | | | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%208.56.10%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%208.56.15%20PM | |

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Silver

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| ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%208.59.28%20PM |
| 1. What is the distance between the ends of the class? 2. The photographer wasnts to estimate how many students can fit at the end of the first row. The photographer turns 50° to see the last students and another 10° to see the end of the camera range.    1. Find the distance from the center to the last student in the row.    2. Find the distance from the center to the end fo the camera range.    3. Use the results of parts (a) and (b) to estimate the length of the empty space.    4. If each student needs 2 feet of space, about how man more students fit at the end of the first row? *Explain* your reasoning. |
| 1. ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%209.02.53%20PM |
| ../../../../../Desktop/Screen%20Shot%202016-02-07%20at%209.06.41%20PMChallenge Question:  Find the perimeter of the figure at the right, where *AC* = 26,  *AD = BF*, and *D* is he midpoint of |